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BAMBI

ISO 9001 CERTIFIED

EXTERNALLY TESTED TÜV SÜD

MADE IN BRITAIN

Operating manual

MODELS: VTS75, VTS150, VTS200, VTS250, VTS75D, VTS150D, VTS200D, VTS250D

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01. Introduction

Your Bambi Air Compressor is a precision engineered product.
By following these simple steps, you will ensure years of trouble-free use.

Parts & Service are available from your Bambi dealer.

It is important to quote model, type and serial number in all communications.

The substitution of parts not manufactured nor approved by Bambi can impair performance, service life and create potential mechanical or personal hazards and invalidate your warranty.

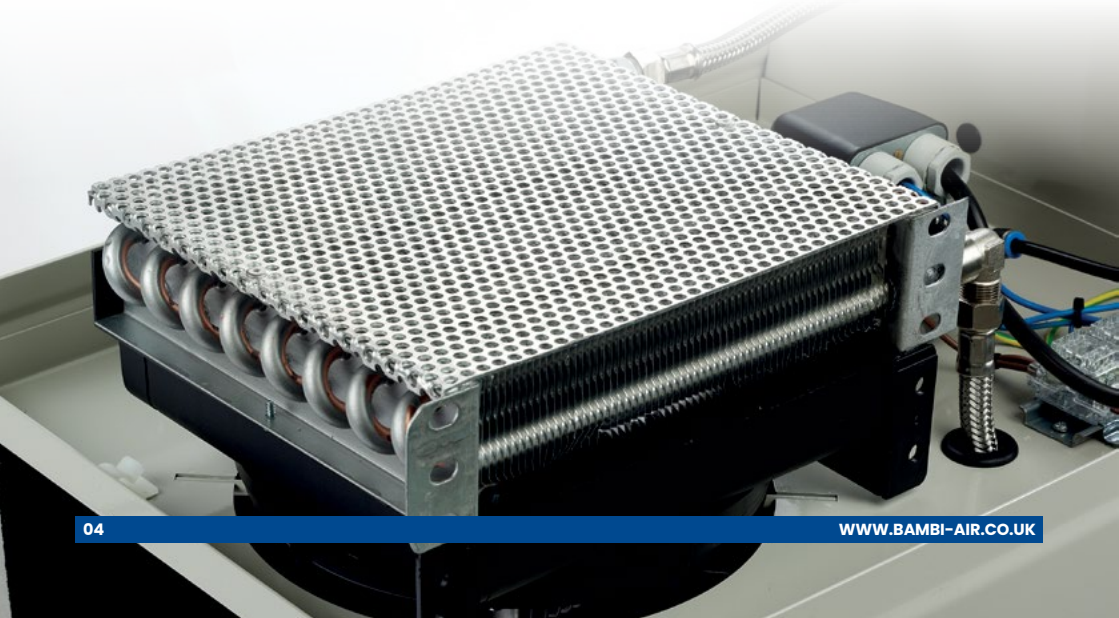
Bambi reserves the right to modify the contents of this operating booklet without notice and the information is in no way binding on the company.

02. Range overview

	VTS75 / VTS75D	VTS150 / VTS150D
Free air delivery @5 Bar	58 L/Min	125 L/Min
Motor power	0.75 HP / 0.55 kW	1.5 HP / 1.1 kW
Tank size	23 Ltr	23 Ltr

	VTS200 / VTS200D	VTS250 / VTS250D
Free air delivery @5 Bar	158 L/Min	210 L/Min
Motor power	2.0 HP / 1.5 kW	2.5 HP / 1.84 kW
Tank size	23 Ltr	59 Ltr

Please refer to our website for free air delivery at varying pressures.



03. UK declaration of conformity

Bambi Air Limited

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UK Declaration of Conformity - Déclaration de Conformité UK - UK Konformitätserklärung - Declaración de Conformidad UK - UK Verklaring van Overeenstemming

Bambi Air Limited declares that this product conforms to the UK Regulations listed below.

Bambi Air Limited déclare que ce produit est conforme aux réglementations du Royaume-Uni énumérées ci-dessous.

Bambi Air Limited declara que este producto cumple con las regulaciones del Reino Unido que se enumeran a continuación.

Bambi Air Limited verklaart dat dit product voldoet aan de onderstaande regelgeving van het Verenigd Koninkrijk.

Bambi Air Limited erklärt hiermit, dass dieses Produkt den nachstehend aufgeführten Vorschriften des Vereinigten Königreichs entspricht.

Supply of Machinery (Safety) Regulations 2008; Pressure Equipment (Safety) Regulations 2016; Simple Pressure Vessels (Safety) Regulations 2016; Electromagnetic Compatibility Regulations 2016; Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012, as amended.

EN 1012-1:2010; EN 60947-4-1:2019; EN 60204-1:2018; EN 61000-6-2:2019; EN 61000-6-4:2019; EN IEC 61000-3-2:2019 + A1:2021; EN 61000-3-3:2013 + A1:2019 + A2:2021; EN ISO 12100:2010; EN ISO 13857:2019; EN IEC 60034-1:2022.

IF NO SERIAL NUMBER HERE THEN HANDBOOK ISSUED AS REPLACEMENT OR WITH SERVICE KIT

Ben Suquet
Director

04. EU declaration of conformity

Bambi Air Limited

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CE

EC Declaration of Conformity - Déclaration de Conformité CE - EG Konformitätserklärung - Declaración de Conformidad CE - EG Verklaring van Overeenstemming

Bambi Air Limited declares that this product conforms to the European Directives listed below.

Bambi Air Limited déclare que ce produit est conforme aux directives européennes énumérées ci-dessous.

Bambi Air Limited declara que este producto cumple con la Directivas Europeas enumeradas a continuación.

Bambi Air Limited verklaart dat dit product voldoet aan de onderstaande Europese Richtlijnen.

Bambi Air Limited erklärt hiermit, dass dieses Produkt den nachstehenden EU-Richtlinien entspricht.

Machinery Directive 2006/42/EC; Electromagnetic Compatibility Directive 2014/30/EU; Simple Pressure Vessels Directive 2014/29/EU; Pressure Equipment Directive 2014/68/EU; RoHS Directive 2011/65/EU, as amended by Directive (EU) 2015/863.

EN 1012-1:2010; EN 60947-4-1:2019; EN 60204-1:2018; EN 61000-6-2:2019; EN 61000-6-4:2019; EN IEC 61000-3-2:2019 + A1:2021; EN 61000-3-3:2013 + A1:2019 + A2:2021; EN ISO 12100:2010; EN ISO 13857:2019; EN IEC 60034-1:2022.

Ben Suquet
Director

05. Warranty

Provided the operating instructions have been followed and the compressor has been properly maintained, Bambi VTS compressors are guaranteed against faulty workmanship for a period of 24 months from the date of purchase. This warranty is strictly conditional on the completion of all preventative maintenance as detailed in the product handbook. Maintenance must be carried out in accordance with the advised schedule, or sooner, depending on usage frequency. Failure to perform the required maintenance will result in the warranty being void. This warranty does not cover damage caused by misuse, the use of incorrect parts or modifications.

06. Preventative maintenance

Maintenance operations	Weekly	Annually	2 yearly
Drain air receiver	✓		
Replace air intake filter		✓	
Check pressure relief activation		✓	
Check piston ring		✓	
Clean ventilation grilles		✓	
Clean Aftercooler Fins (dryer models)		✓	
Replace Air Dryer Filter			✓
Desiccant Change			✓
Change Centrifugal Filter Element			✓

07. Electrical connections

Where applicable, compressors are supplied with a moulded plug in accordance with national standards. Never remove the moulded plug. Ensure the machine is connected to a fused electrical circuit with a breaker. The use of extension cables is not recommended as this may cause voltage drops which can result in damage to the motor. If required, fit a separate emergency stop button for additional safety precautions. The VTS250D model must be connected to a dedicated fused 20 amp supply.

THREE PHASE UNITS REQUIRE NEUTRAL SUPPLY

Models		220–240 volts	380 volts
Wired in accordance with		European standard	European standard
Wiring		Blue = Neutral	White = Neutral
		Brown = Live	Brown = Live 1
		Yellow/Green = Earth	Black = Live 2
			Grey = Live 3
			Yellow/Green = Earth

08. Technical specification

VTS75/VTS75D Specification	Single phase
Motor Power	0.75 HP / 0.55 kW
Max Pressure	8 Bar
Noise Level [1]	57 dB(A)
Current	5 Amps
Voltage	220-240V [2]
Connection	UK plug [3]
Weights	64 kg
Dimensions	65 x 93 x 48 cm
Frequency	50 Hz
Displacement @ 5 Bar	58 L/min
Tank size	23 Ltr

VTS150/VTS150D Specification	Single phase	Three phase
Motor Power	1.5 HP / 1.1 kW	1.5 HP / 1.1 kW
Max Pressure	8 Bar	8 Bar
Noise Level [1]	63 dB(A)	63 dB(A)
Current	7 Amps	3.7 Amps
Voltage	220-240V [2]	380-415V
Connection	UK plug [3]	Hardwired [4]
Weights	64 kg	71 kg
Dimensions	65 x 93 x 48 cm	65 x 93 x 48 cm
Frequency	50 Hz	60 Hz
Displacement @ 5 Bar	125 L/min	125 L/min
Tank size	23 Ltr	23 Ltr

VTS200/VTS200D Specification	Single phase	Three phase
Motor Power	2.0 HP / 1.5 kW	2.0 HP / 1.5 kW
Max Pressure	8 Bar	8 Bar
Noise Level [1]	63 dB(A)	63 dB(A)
Current	10 Amps	3.7 Amps
Voltage	220-240V [2]	380-415V
Connection	UK plug [3]	Hardwired [4]
Weights	69 kg	76 kg
Dimensions	65 x 93 x 48 cm	65 x 93 x 48 cm
Frequency	50 Hz	60 Hz
Displacement @ 5 Bar	158 L/min	158 L/min
Tank size	23 Ltr	23 Ltr

[1] Independently tested by TÜV SÜD [2] Three-phase (400 Volts) version available [3] EU plug available upon request
[4] This unit needs to be hardwired into the main fuse box

VTS250/VTS250D Specification	Single phase	Three phase
Motor Power	2.5 HP / 1.84 kW	2.5 HP / 1.84 kW
Max Pressure	8 Bar	8 Bar
Noise Level [1]	69 dB(A)	69 dB(A)
Current	13.5 Amps	4.6 Amps
Voltage	220-240V [2]	380-415V
Connection	Hardwired [4]	Hardwired [4]
Weights	122 kg	131 kg
Dimensions	90 x 75 x 74 cm	90 x 75 x 74 cm
Frequency	50 Hz	60 Hz
Displacement @ 5 Bar	210 L/min	210 L/min
Tank size	59 Ltr	59 Ltr

[1] Independently tested by TÜV SÜD [2] Three-phase (400 Volts) version available [3] EU plug available upon request
[4] This unit needs to be hardwired into the main fuse box

IMPORTANT!

The VTS250D model must be connected to a dedicated fused 20-amp supply.

All three phase units require a neutral supply.

09. Unpacking Instructions

A. FITTING MOUNTING CASTORS

Before using the compressor you must remove the external packaging and fit the castors supplied as they also provide essential clearance for the lower cooling fan exhaust.

NOTE!

Failure to do so will cause damage and invalidate your warranty.

Remove the four bolts securing the compressor to its wooden packing, carefully lift the compressor to enable you to screw in the four castors using the same mounting holes.

Take care lifting the compressor, some models are heavy.

B. REMOVING INTERNAL TRANSIT PACKING

Before using the compressor you must remove the internal packing, failure to do so will cause damage to the compressor. The procedure is as follows -

VTS75/150/200

Using the hex key provided, remove the 3 bolts fixing the left hand end cover in place (when viewed from the front) – see fig 1.

There are three packing pieces, one on either side of the pump unit, and one on top of the cooling fan assembly. Ensure that these are removed.

Figure 1

VTS250D

Using the hex key provided, remove the 4 bolts fixing the top cover in place and remove the top cover - see fig 1a.

There is one packing piece on the top of the pump unit. Ensure that this is removed.

Reassembly is a reverse of the above but do not over-tighten the cover fixing bolts.

Figure 1a

C. FITTING CONDENSATE BOTTLE – VTS DRYER MODELS ONLY

Compressors fitted with an air dryer are supplied with a condensate bottle which you will need to fit before use.

Attach the condensate bottle mounting bracket to the front panel of the compressor using the 2 plastic clips provided. These are a simple push fit.

Figure 2

Slide the condensate bottle into the mounting bracket.

Push the black plastic condensate tube which emerges from the front panel into the hole in the lid of the bottle. As on Fig. 2.

Fit the exhaust silencer to the condensate tube by pushing firmly on to the end of the tube.

Re-fit the bottle lid.

10. Installation instructions

What you MUST do:

- ✓ Read these instructions before using your air compressor.
- ✓ Ensure the compressor has been installed, electrically connected and piped in by a properly qualified person.
- ✓ Ensure the compressor is kept upright at all times.
- ✓ Use ear protection when in close proximity to the compressor.
- ✓ Connections from the compressor outlet should be made in flexible pipe.
- ✓ Provide adequate protection from the weather.
- ✓ Site the compressor level in both planes.
- ✓ Ensure the surface has sufficient load bearing capacity.
- ✓ Allow access for maintenance all around the compressor (min 30cm).
- ✓ Site in a dry area, avoiding damp or humid conditions. The site must be dust free, well-ventilated and have a cool ambient temperature. 0 to 40°C should be regarded as the minimum and maximum allowable ambient.

What you MUST NOT do:

- ✗ Do not attempt any maintenance on the compressor until it has been isolated from the power supply.
- ✗ Do not attempt any work on the compressor until the air receiver and pipe work systems are depressurised.
- ✗ Compressed air is dangerous if misused and can prove fatal. Avoid any bodily contact with compressed air.
- ✗ During operation the motor will become quite hot to the touch. Avoid contact to prevent burns.
- ✗ Never tamper with the pressure relief valve.
- ✗ Do not enclose the compressor or allow hot air generated by the motor to recirculate around the compressor.
- ✗ Do not restrict air flow around the end cover ventilation grilles.
- ✗ Do not site in a potentially explosive atmosphere without the necessary additional precautions being made.
- ✗ Do not obstruct cooling fans or outlet vents.
- ✗ Do not lubricate the oil free motor or pump assembly – will cause severe damage.

IMPORTANT!

These compressors generate heat. Never restrict any of the ventilation grilles otherwise serious damage may occur.

This product is intended for use in non-sterile environments. If installed or used within a controlled environment, the end user is responsible for implementing appropriate measures to maintain the required environmental conditions.

11. Operation

Refer to exploded parts diagrams and illustrations when reading this section. Flexible airline should be fitted to the regulator outlet.

We recommend the compressor has a maximum 50% duty cycle to prolong pump life.

The motor must never be allowed to run continuously, otherwise it will overheat and may become damaged. The duty cycle is calculated over 10 minutes, meaning that if the motor runs for 5 minutes it must rest for 5 minutes before its next use.

All air connections must be leak free to prevent the compressor from overheating.
The compressor is fitted with a thermal overload.

In the event of excessive temperature, the motor will switch off. Do not switch the compressor off after overheating as this will prevent the internal cooling fans which reduce the temperature inside the housing from running.

After about 50 minutes when the motor has cooled, lightly press the thermal reset button as shown in the figure. You will hear an audible click.

The compressor will now restart.

Thermal reset

You must find the cause of the overload and rectify it before continuing to use the compressor. Damage by continuing to use the unit is not covered under warranty.

12. Starting & stopping

Plug the compressor into an outlet socket of nominal voltage and fitted with the correct fuse as shown in section "Electrical Connections".

Switch the compressor on by flicking the rocker switch on.

The compressor will start running and automatically switch off at the pre-set pressure. The pump will turn on automatically when pressure drops low enough.

NEVER unplug the compressor when running. Always switch off using the on/off switch to ensure the compressor discharges.

Compressor switch

Note: Each time the compressor switches off, you will hear a short hiss of air. You are hearing the unloader valve discharging the residual delivery pipe pressure. This is normal.

Dryer models also use this discharge as the motor cycles to purge the desiccant dryer. Working dryer models over the advised 50% duty cycle will cause your dryer to fail prematurely, and replacement/repairs will not be covered under warranty.

13. Adjusting outlet pressure

Use the pressure regulator to adjust the outlet pressure.

To increase line pressure, rotate the knob in a clockwise direction; to decrease turn anti clockwise. It is possible to lock the setting by pushing the knob down until it "clicks".

There are two pressure gauges on each model.

The gauges indicate the air receiver pressure and the air outlet pressure, as identified by their respective labels.

Pressure regulator

14. Routine maintenance

Below are steps on how to perform routine maintenance on your machine, as detailed in "06. Preventative Maintenance". Failure to perform these maintenance activities in line with the advised timetable detailed on page 7 (or sooner depending on frequency of usage) will result in your warranty being void.

Air receiver drain & condensate bottle

A. DRAINING THE AIR RECEIVER

Drain condensate from air receiver at a pressure of no more than 2 Bar. Slowly open the drain tap provided to allow condensate to flow out. Fully close the drain tap when all condensate has drained off.

Note: Condensate must be handled in accordance with national environmental rules.

B. CHECKING THE PRESSURE RELIEF VALVE (PRV)

Ensure the air receiver is not pressurised. Unscrew the knurled end of the pressure relief valve until an audible click is heard. Retighten without using excessive force.

If no click is heard, PRV may need to be replaced.

Pressure relief valve

C. EMPTY CONDENSATE COLLECTION BOTTLE - DRYER MODELS ONLY

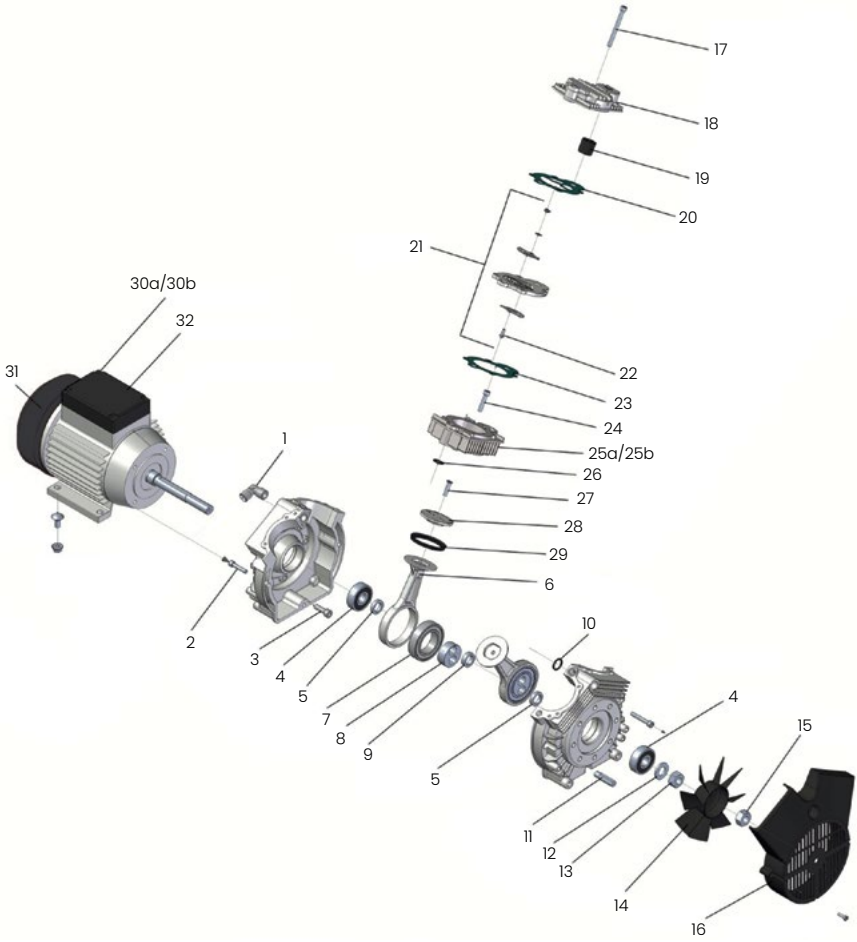
When ¾ full, or sooner, remove the bottle from the holder and unscrew the top. Dispose of the liquid inside according to local guidance. Replace the top and return to the holding bracket.

15. VTS 0.75HP / 1.5HP pump – parts list

#	Description	Part No.
1	3/8bsp outlet elbow	BPB0629
2	Block fixing	BPB0665
3	Block screw	BPB0667
4	Block bearing	BPB0668
5	Short spacer	BPB0669
6	Con rod	BPB0670
7	Con rod bearing	BPB0671
8	Eccentric	BPB0672
9	Large spacer	BPB0673
10	Block o ring	BPB0674
11	Stud bolt	BPB0676
12	16mm washer	BPB0677
13	M16 nut	BPB0678
14	Fan	BPB0625
15	M16 fan nut	BPB0679
16	Fan cowling	BPB0626
17	Cylinder head bolt	BPB0680

#	Description	Part No.
18	Cylinder head	BPB0681
19	Intake filter	BPB0682
20	Cylinder head gasket	BPB0620
21	Complete valve plate	BPB0686
22	Valve strip bolt	BPB0687
23	Valve plate gasket	BPB0621
24	Cylinder bolt	BPB0688
25a	Cylinder VTS75	BPB0689
25b	Cylinder VTS150	BPB0690
26	Cylinder o ring	BPB0691
27	Top washer bolt	BPB0692
28	Top washer	BPB0693
29	Piston seal	BPB0623
30a	Capacitor VTS75	BPB0696
30b	Capacitor VTS150	BPB0696
31	Motor fan cover	BPB0618
32	Terminal box	BPB1329

This pump is used on the VTS75, VTS75D, VTS150, and VTS150D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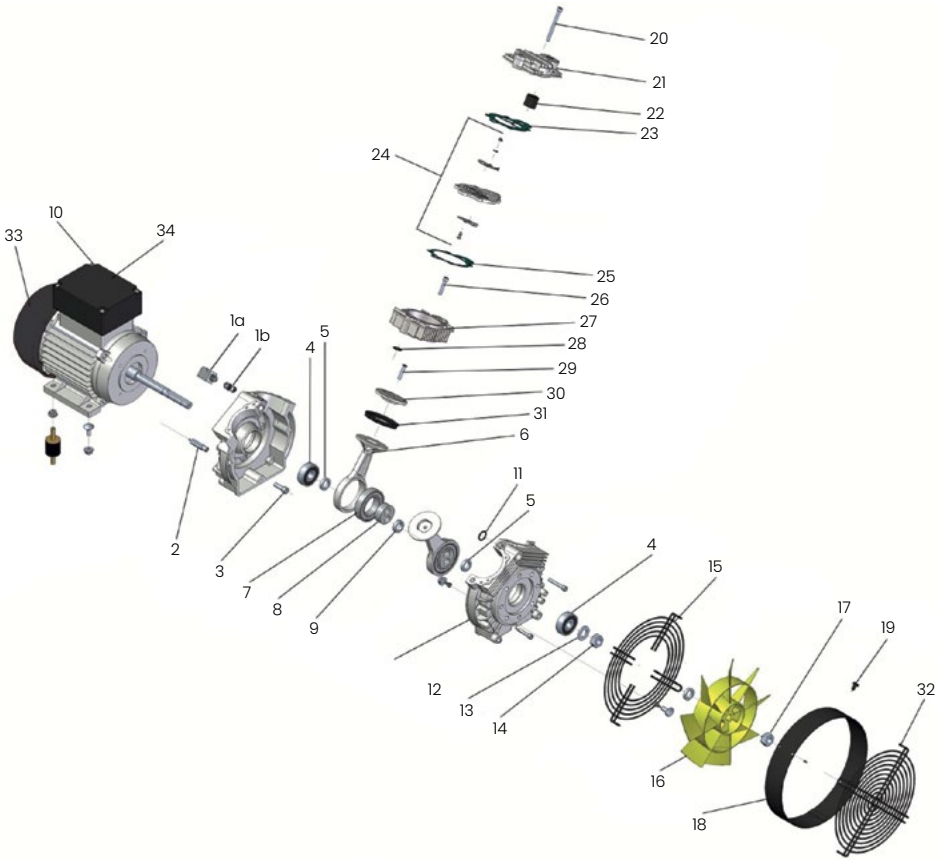
16. VTS 2.0HP pump – parts list

#	Description	Part No.
1a	3/8bsp outlet elbow	BPB0614
1b	3/8bsp M/M equal adaptor	BPB0283
2	Block fixing	BPB0665
3	Block screw	BPB0667
4	Block bearing	BPB0668
5	Short spacer	BPB0669
6	Con rod	BPB0670
7	Con rod bearing	BPB0671
8	Eccentric	BPB0672
9	Large spacer	BPB0673
10	VT200 capacitor	BPB0674
11	Block o ring	BPB0676
12	Stud bolt	BPB0677
13	16mm washer	BPB0678
14	M16 nut	BPB0625
15	Inner fan cover	BPB0679
16	Fan	BPB0626
17	M16 fan nut	BPB0680

#	Description	Part No.
18	Fan ring	BPB0681
19	Fan cover fixing	BPB0682
20	Cylinder head bolt	BPB0620
21	Cylinder head	BPB0686
22	Intake filter	BPB0687
23	Cylinder head gasket	BPB0621
24	Complete valve plate	BPB0688
25	Valve plate gasket	BPB0689
26	Cylinder bolt	BPB0690
27	Cylinder	BPB0691
28	Cylinder o ring	BPB0692
29	Top washer bolt	BPB0693
30	Top washer	BPB0623
31	Piston seal	BPB0696
32	Outer fan cover	BPB0696
33	Motor fan cover	BPB0618
34	Terminal box	BPB1329

This pump is used on the VTS200 and VTS200D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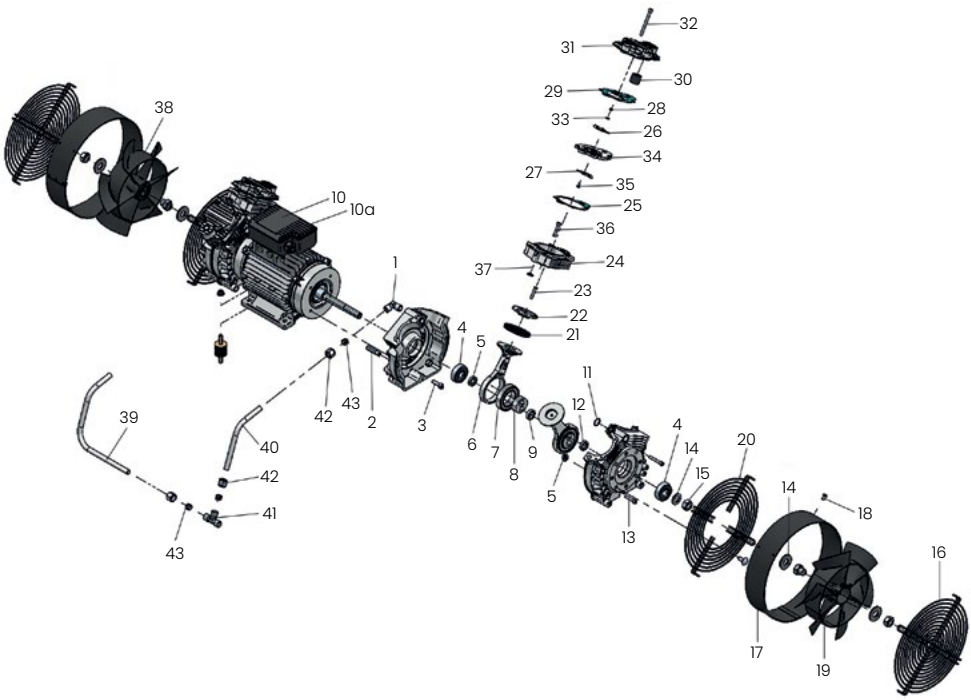
17. VTS 2.5HP pump – parts list

#	Description	Part No.
1	3/8bsp outlet elbow	BPB0614
2	Block fixing	BPB0665
3	Block screw	BPB0667
4	Block bearing	BPB0668
5	Short spacer	BPB0669
6	Con rod	BPB0670
7	Con rod bearing	BPB0671
8	Eccentric	BPB0672
9	Large spacer	BPB0673
10	Capacitor	BPB0701
10a	Terminal box	BPB1329
11	Block o ring	BPB0674
12	Eccentric nut	BPB0984
13	Stud bolt	BPB0676
14	Washer	BPB0677
15	M16 nut	BPB0678
16	Outer fan cover	BPB0991
17	Fan ring	BPB0990
18	Fan cover fixing	BPB0706
19	Right hand fan	BPB0988A
20	Inner fan cover	BPB0987
21	Piston seal	BPB0623

#	Description	Part No.
22	Top washer	BPB0693
23	Top washer screw	BPB0692
24	Cylinder	BPB0690
25	Valve plate gasket	BPB0621
26	Inlet valve strip	BPB0685
27	Outlet valve strip	BPB0685
28	Valve plate nut	BPB0683
29	Cylinder head gasket	BPB0620
30	Inlet filter	BPB0682
31	Cylinder head	BPB0681
32	Cylinder head bolt	BPB0680
33	Valve plate washer	BPB0684
34	Valve plate	BPB0686
35	Valve plate bolt	BPB0687
36	Cylinder bolt	BPB0688
37	Cylinder o ring	BPB0691
38	Left hand fan	BPB0989A
39	90° connecting pipe	BPB0993
40	Straight pipe	BPB0994
41	Tee piece	BPB0992
42	Connecting pipe nut	BPB0986
43	Connecting pipe olive	BPB0985

This pump is used on the VTS250 and VTS250D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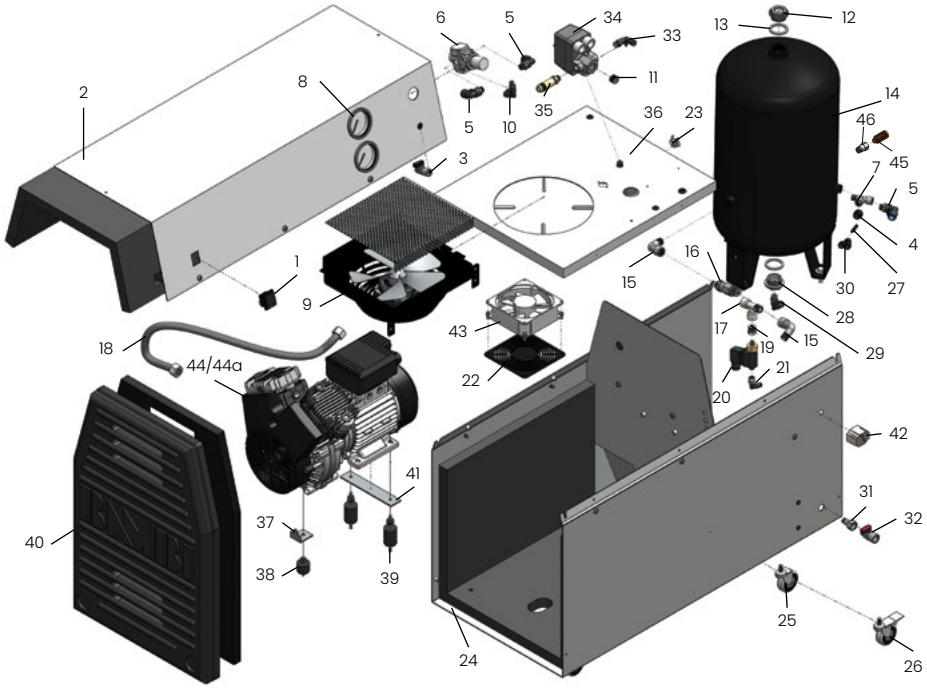
18. VTS75/150 parts list

#	Description	Part No.
1	On/off switch	APT626
2	Cabinet lid	BPB0763
3	On/off valve	BPB1079
4	1/4bspm x 6mm push in tube fitting	BPB0043
5	1/4bspm x 10mm tube swivel elbow	BPB0276
6	1/4bsp regulator	BPB0510
7	1/4bsp t-piece	BPB1109
8	1/4bsp panel mounted gauge	BPB0748
9	Cooling fan housing inc. cover	BPB0767
10	1/4bsp x 6mm elbow	BPB0044
11	3/8bspt plug	BPB0770
12	Flanged inspection plug	BPB0243
13	Inspection plug seal	BPB0502
14	23L vessel	BPB0795
15	3/8bsp M/F plated elbow	BPB0282
16	3/8bsp non-return valve	BPB0822
17	3/8bsp t-piece	BPB0802
18	Delivery pipe	BPB0798
19	3/8bspm x 1/4bspf reducing bush	BPB0356
20	Solenoid valve and cable assembly	BPB0545
21	1/8bspm x 1/4bspm adaptor	BPB0278
22	Fan guard	BPB0736

#	Description	Part No.
23	Thermal switch	BPB0732
24	Cabinet base	BPB0762
25	Swivel castor	BPB0811
26	Swivel castor with brake	BPB0812
27	6mm nylon tube	BPB0203
28	Reducing bush	BPB0255
29	1/4 x 6mm tube swivel elbow	BPB0042
30	6mm tube Y-connector	BPB0279
31	3/8 x 6mm tube fitting	BPB0756
32	Drain tap	BPB0281
33	1/4 x 6mm elbow	BPB0042
34	Pressure switch	BPB0550
35	Safety valve	BPB1084
36	Cabinet tray	BPB0764
37	0.75 & 1.5HP crankcase bracket	BPB0347
38	20mm rubber mount	BPB0273
39	40mm rubber mount	BPB0272
40	End panel	BPB0538
41	Motor mounting bracket	BPB0321
42	Thermal reset switch	BPB0722
43	Cooling fan	BPB0727
44	**0.75HP pump 220v 50hz**	**BPB0539**
44a	1.5HP pump 220v 50hz	BPB0540
45	1/8bsp silencer	BPB0588
46	1/8bsp x 6mm tube fitting	BPB0154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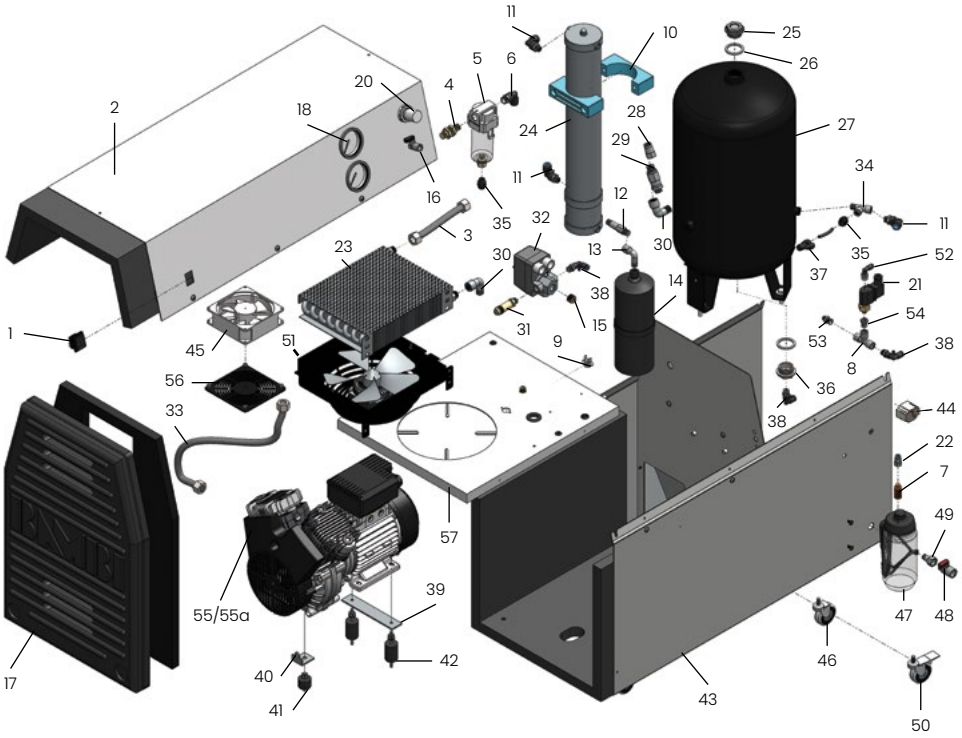
19. VTS75D/150D parts list

#	Description	Part No.
1	On/off switch	APT626
2	Cabinet lid	BPB0763
3	165 mm delivery pipe	BPB0728
4	3/8 bulkhead connector	BPB0749
5	Air filter-coalescing	BPB1394
6	3/8bsp x 10mm tube elbow	BPB0277
7	1/8bsp silencer	BPB0588
8	1/4" female t-piece	BPB1239
9	Thermal reset switch	BPB0732
10	Dryer mounting clamp (two halves)	BPB0503
11	1/4 x 10mm tube elbow	BPB0276
12	Purge tank bleed pipe	BPB0775
13	1/4bsp elbow	BPB1139
14	Dryer purge tank	BPB0484
15	3/8bspt plug	BPB0770
16	On/off valve	BPB1079
17	End panel	BPB0538
18	1/4bsp x 63mm gauge	BPB0748
19	6mm tube elbow (for gauge)	BPB0758
20	Regulator	BPB0510
21	Solenoid valve and cable assembly	BPB0545
22	1/8bsp x 6mm tube fitting	BPB0154
23	Large Aftercooler with fittings and guard	BPB0860
24	Dryer assembly	BPB0548
25	Flanged inspection plug	BPB0243
26	Inspection plug seal	BPB0502
27	23L vessel	BPB0795
28	3/8bsp x 10mm tube connector	BPB0275

#	Description	Part No.
29	3/8bsp non return valve	BPB0822
30	3/8bsp plated elbow	BPB0282
31	Safety valve	BPB1084
32	Pressure switch	BPB0550
33	400mm delivery pipe	BPB0508
34	1/4bsp t-piece	BPB1109
35	1/4bsp x 6mm tube fitting	BPB0043
36	1" bsp x 1/4" bsp flanged reducing bush	BPB0255
37	6mm push fit Y-connector	BPB0279
38	1/4bsp x 6mm tube elbow	BPB0042
39	Motor mounting bracket	BPB0321
40	0.75/1.5HP crankcase bracket	BPB0347
41	20mm rubber mount	BPB0273
42	40mm rubber mount	BPB0272
43	Cabinet base	BPB0762
44	Reset switch	BPB0722
45	Cooling fan	BPB0727
46	Swivel castor	BPB0811
47	Bottle with cap and cage	BPB0088
48	Drain valve	BPB0281
49	3/8 x 6mm tube fitting	BPB0756
50	Swivel castor with brake	BPB0812
51	Cooling fan and housing (L)	BPB0767
52	1/8bspf x 6mm tube elbow	BPB0278
53	1/8 x 3/8bspm unequal adaptor	BPB0600
54	1/8bspm x 1/8bspf reducing bush	BPB0041
55	0.75 pump 220v50hz	BPB0539
55a	1.5HP pump 220v50hz	BPB0540
56	Fan guard	BPB0736
57	Cabinet tray	BPB0764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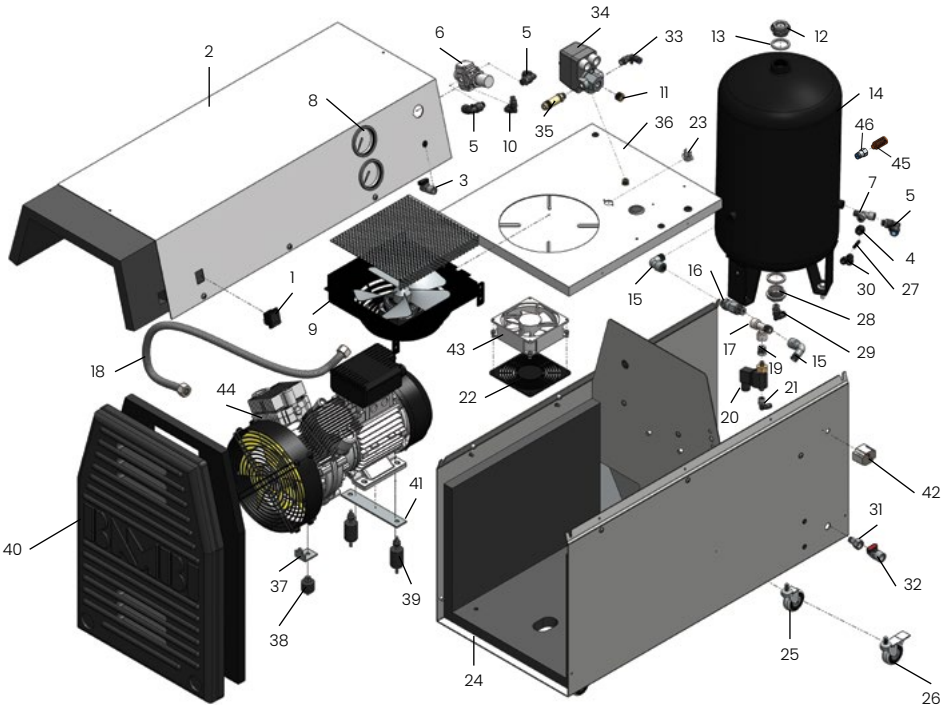
20. VTS200 parts list

#	Description	Part No.
1	On/off switch	APT626
2	Cabinet lid	BPB0763
3	On/off valve	BPB1079
4	1/4bspm 6mm push in tube fitting	BPB0043
5	1/4bsp x 10mm tube elbow	BPB0276
6	1/4bsp regulator	BPB0510
7	1/4bsp t-piece	BPB1109
8	1/4bsp panel mounted gauge	BPB0748
9	Cooling fan housing inc. cover	BPB0767
10	1/4bsp x 6mm elbow	BPB0044
11	3/8bspt plug	BPB0770
12	Flanged inspection plug	BPB0243
13	Inspection plug seal	BPB0502
14	23L vessel	BPB0795
15	3/8bsp plated elbow	BPB0282
16	3/8bsp non-return valve	BPB0822
17	3/8bsp t-piece	BPB0802
18	Delivery pipe	BPB0798
19	3/8bspm x 1/4bspf reducing bush	BPB0356
20	Solenoid valve and cable assembly	BPB0545
21	1/8bspm x 1/4bspm adaptor	BPB0278
22	Fan guard	BPB0736

#	Description	Part No.
23	Thermal switch	BPB0732
24	Cabinet base	BPB0762
25	Swivel castor	BPB0811
26	Swivel castor with brake	BPB0812
27	6mm nylon tube	BPB0203
28	Reducing bush	BPB0255
29	1/4bsp x 6mm tube swivel elbow	BPB0042
30	6mm tube Y-connector	BPB0279
31	3/8bsp x 6mm tube fitting	BPB0756
32	Drain tap	BPB0281
33	1/4bsp x 6mm elbow	BPB0042
34	Pressure switch	BPB0550
35	Safety valve	BPB1084
36	Cabinet tray	BPB0764
37	2HP crankcase bracket	BPB0517
38	20mm rubber mount	BPB0273
39	40mm rubber mount	BPB0272
40	End panel	BPB0538
41	Motor mounting bracket	BPB0516
42	Thermal reset switch	BPB0722
43	Cooling fan	BPB0727
44	2HP pump 220v 50hz	BPB0541
45	1/8bsp silencer	BPB0588
46	1/8bsp x 6mm tube fitting	BPB0154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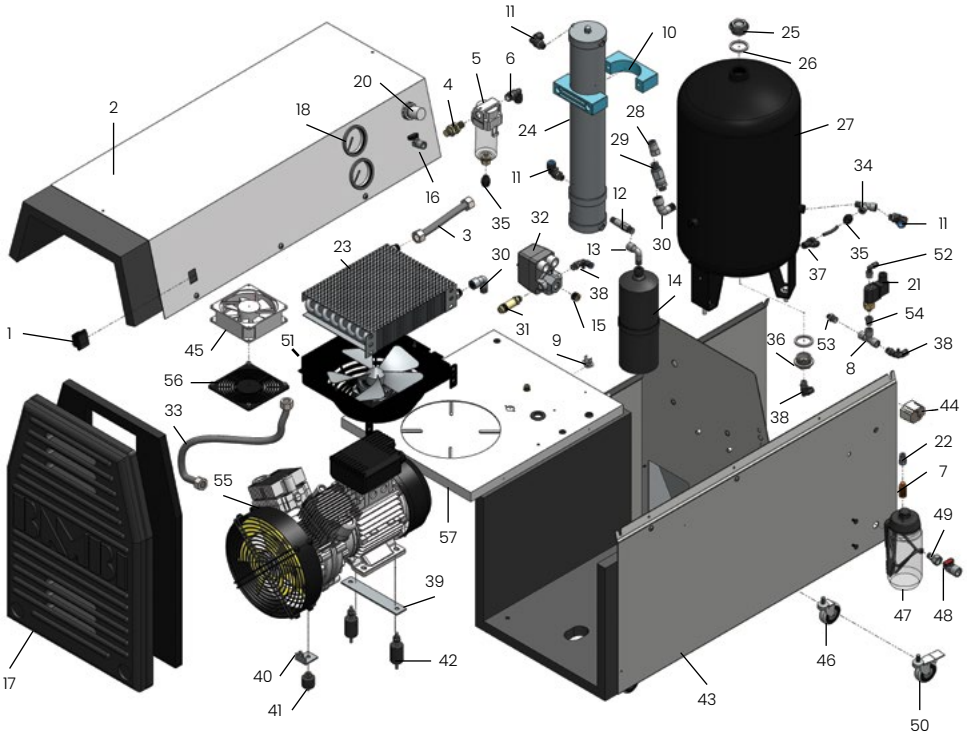
21. VTS200D parts list

#	Description	Part No.
1	On/off switch	APT626
2	Cabinet lid	BPB0763
3	165mm delivery pipe	BPB0728
4	3/8 Bulkhead connector	BPB0749
5	Air filter-coalescing	BPB1394
6	3/8bsp x 10mm tube elbow	BPB0277
7	1/8bsp silencer	BPB0588
8	1/4" Female t-piece	BPB1239
9	Thermal switch	BPB0732
10	Dryer mounting clamp (two halves)	BPB0503
11	1/4bsp x 10mm tube elbow	BPB0276
12	Purge tank bleed pipe	BPB0775
13	1/4bsp elbow	BPB1139
14	Dryer purge tank	BPB0484
15	3/8bspt plug	BPB0770
16	On/off valve	BPB1079
17	End panel	BPB0538
18	1/4bsp x 63mm gauge	BPB0748
19	6mm tube elbow (for gauge)	BPB0758
20	Regulator	BPB0510
21	Solenoid valve and cable assembly	BPB0545
22	1/8bsp x 6mm tube fitting	BPB0154
23	Large aftercooler with fittings and guard	BPB0860
24	Dryer assembly	BPB0548
25	Flanged inspection plug	BPB0243
26	Inspection plug seal	BPB0502
27	23L vessel	BPB0795
28	3/8bsp x 10mm tube connector	BPB0275

#	Description	Part No.
29	3/8bsp non return valve	BPB0822
30	3/8bsp plated elbow	BPB0282
31	Safety valve	BPB1084
32	Pressure switch	BPB0550
33	400mm delivery pipe	BPB0508
34	1/4bsp t-piece	BPB1109
35	1/4bsp x 6mm tube fitting	BPB0043
36	1" bsp x 1/4" bsp flanged reducing bush	BPB0255
37	6mm push fit Y-connector	BPB0279
38	1/4bsp x 6mm tube elbow	BPB0042
39	Motor mounting bracket	BPB0516
40	2HP crankcase bracket	BPB0517
41	20mm rubber mount	BPB0273
42	40mm rubber mount	BPB0272
43	Cabinet base	BPB0762
44	Thermal reset switch	BPB0722
45	Cooling fan	BPB0727
46	Swivel castor	BPB0811
47	Bottle with cap and cage	BPB0088
48	Drain valve	BPB0281
49	3/8bsp x 6mm tube fitting	BPB0756
50	Swivel castor with brake	BPB0812
51	Cooling fan and housing (L)	BPB0767
52	1/8bspf x 6mm tube elbow	BPB0278
53	1/8bsp x 3/8bspm unequal adaptor	BPB0600
54	1/8bspm x 1/8bspf reducing bush	BPB0041
55	2HP pump 220v 50hz	BPB0541
56	Fan guard	BPB0736
57	Cabinet tray	BPB0764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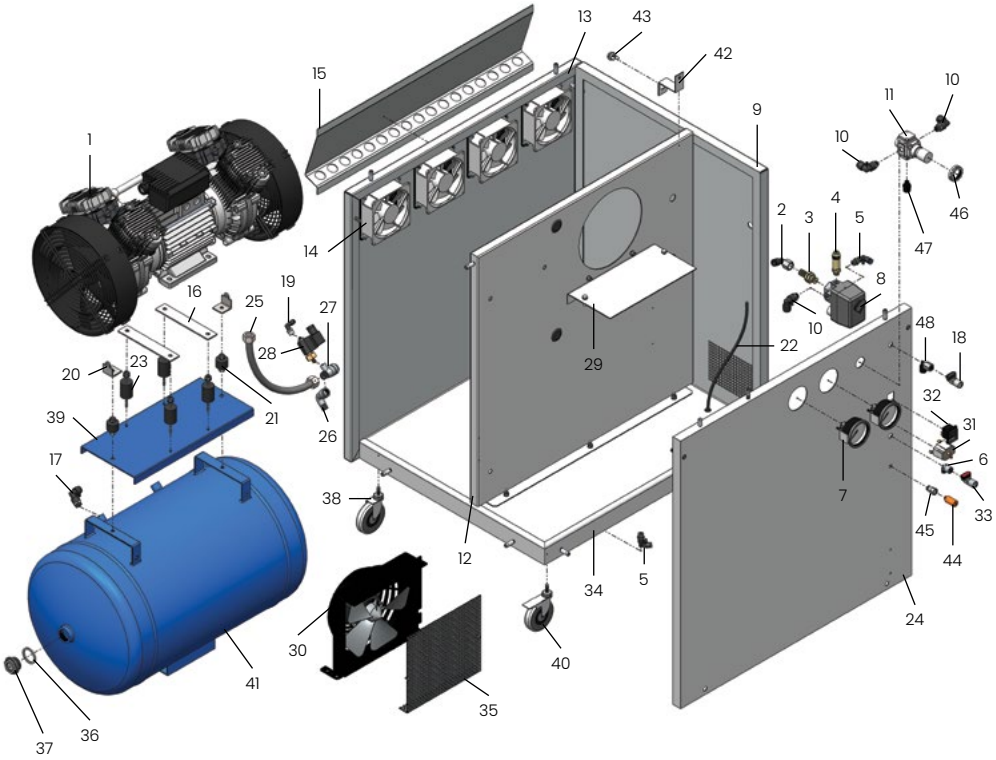
22. VTS250 parts list

#	Description	Part No.
1	2.5HP pump 220v 50hz	BPB0870A
2	3/8bsp x 10mm tube elbow	BPB0593
3	3/8bsp bulkhead connector	BPB0749
4	Safety valve	BPB1084
5	1/4bsp x 6mm tube elbow	BPB0042
6	1/4bsp x 6mm tube elbow	BPB0758
7	1/4bsp x 63mm gauge	BPB0748
8	Pressure switch	BPB0550
9	Cabinet: RH panel	BPB0352
10	1/4bsp x 10mm tube elbow	BPB0276
11	Regulator	BPB0510
12	Cabinet centre panel	BPB0353
13	Cabinet back panel	BPB0350
14	Cooling fan	BPB0727
15	Fan guard	BPB0355
16	2.5HP motor mounting bracket	BPB0516
17	3/8bspm x 10mm tube swivel elbow	BPB0277
18	On/off valve	BPB1079
19	1/8bspf x 6mm tube elbow	BPB0278
20	2.5HP crankcase mounting bracket	BPB0517
21	20mm rubber mount	BPB0273
22	6mm nylon tube	BPB0203
23	40mm rubber mount	BPB0272
24	Cabinet front panel	BPB0349
25	Delivery pipe	BPB0508

#	Description	Part No.
26	3/8bsp elbow	BPB0282
27	Non-return valve	BPB0656
28	Solenoid valve and cable assembly	BPB0545
29	Aftercooler mounting bracket	BPB0336
30	Cooling fan and housing (L)	BPB0767
31	Thermal reset switch	BPB0722
32	On/off switch	APT626
33	Drain valve	BPB0895
34	Cabinet base	BPB0348
35	Cooling fan guard	BPB0889
36	Inspection plug seal	BPB0502
37	Inspection plug	BPB0243
38	Swivel castor	BPB0973
39	Motor mounting plate	BPB0343
40	Swivel castor with brake	BPB0974
41	59L vessel	BPB0230
42	Thermal switch bracket	BPB0339
43	Thermal switch	BPB0732
44	1/8bspp silencer	BPB0588
45	1/8bspf x 6mm push in tube fitting	BPB0154
46	Regulator locking ring	BPB0782
47	1/8bspm x 6mm straight tube fitting	BPB0537
48	1/4bspf x10mm swivel elbow	BPB0820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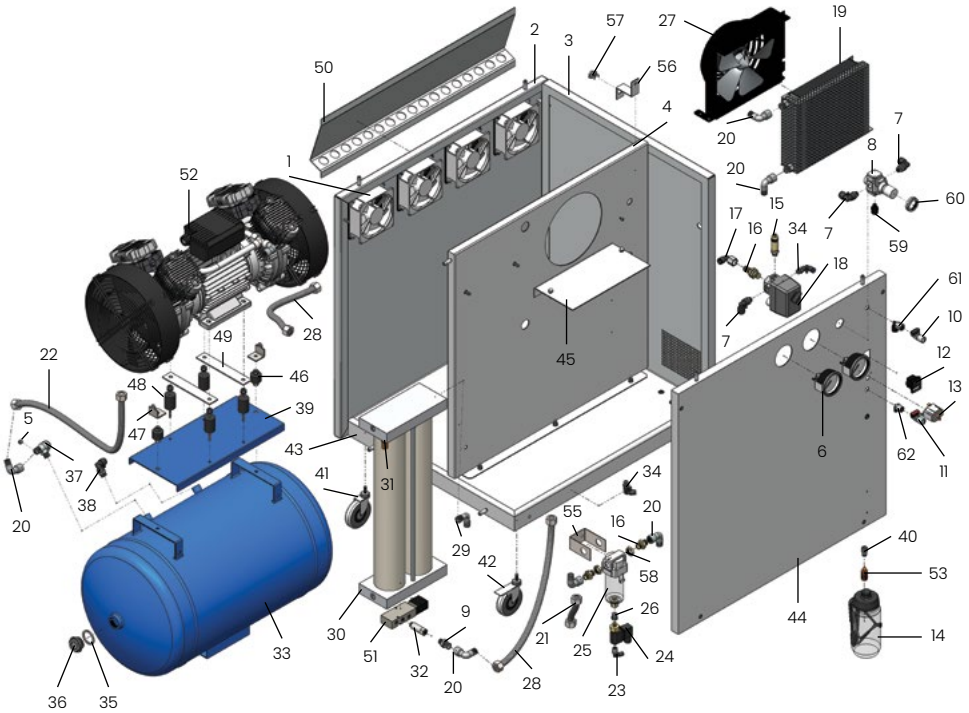
23. VTS250D parts list

#	Description	Part No.
1	Cooling fan	BPB0727
2	Cabinet back panel	BPB0350
3	Cabinet RH panel	BPB0352
4	Cabinet centre panel	BPB0353
5	1/8spt allen key plug	BPB0823
6	1/4bsp x 63mm 0-160 gauge	BPB0748
7	1/4bsp x 10mm Tube elbow	BPB0276
8	Regulator	BPB0510
9	1/4bsp x 3/8bspm unequal adaptor S/S	BPB0591
10	On/off valve	BPB1079
11	Drain valve	BPB0895
12	On/off switch	APT626
13	Thermal reset switch	BPB0722
14	Bottle c/w cap and cage	BPB0088
15	Safety valve	BPB1084
16	3/8bsp bulkhead connector	CP0713
17	3/8bsp x 10mm tube elbow	BPB0593
18	Pressure switch	BPB0550
19	Aftercooler with fittings guard	BPB0869
20	3/8bsp plated elbow	BPB0282
21	165mm delivery pipe	BPB0728
22	600mm delivery pipe	BPB0798
23	1/8bsp x 6mm elbow	BPB0278
24	Solenoid valve and cable assembly	BPB0545
25	Air filter – coalescing	BPB1394
26	1/4bsp x 1/8bsp reducing bush	BPB0041
27	Cooling fan and housing (L)	BPB0767
28	400mm delivery pipe	BPB0508
29	3/8bsp elbow	BPB0629
30	Twin tower dryer	BPB0836
31	Safety valve	BPB1084
32	Extension piece	BPB0150

#	Description	Part No.
33	59L vessel	BPB0230
34	1/4bsp x 6mm tube elbow	BPB0042
35	Inspection plug seal	BPB0502
36	Flanged inspection plug	BPB0243
37	Non-return valve	BPB0656
38	3/8bspm x 10mm tube swivel elbow	BPB0277
39	Motor mounting plate	BPB0343
40	1/8bspf x 6mm push in tube fitting	BPB0154
41	Swivel castor	BPB0973
42	Swivel castor c/w brake	BPB0974
43	Cabinet base	BPB0348
44	Cabinet front panel	BPB0349
45	Aftercooler mounting bracket	BPB0336
46	20mm rubber mount	BPB0273
47	2.0HP crankcase mounting bracket	BPB0517
48	40mm rubber mount	BPB0272
49	2.0HP motor mounting bracket	BPB0516
50	Fan guard	BPB0355
51	Solenoid valve body	BPB1279
52	2.5HP pump 220v 50hz	BPB0870A
53	1/8bsp silencer	BPB0588
54	1/4bsp x 6mm tube elbow	BPB0758
55	Coalescing filter bracket (MSC)	BPB1337
56	Thermal switch bracket	BPB0339
57	Thermal switch	BPB0732
58	3/8bsp locknut brass	BPB0346
59	1/8bspm x 6mm straight tube fitting	BPB0537
60	Thermal switch (cap)	BPB0782
61	1/4bspf x10mm swivel elbow	BPB0820
62	6mm tube elbow	BPB0758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24. Troubleshooting

THE COMPRESSOR DOES NOT TURN ON

Possible causes	Solutions
Wrong power supply	Check compressor is connected to the right voltage/frequency
Plug not turned on	Turn on plug
Pressure switch not turned on	Turn switch to on (auto) position
Already reached pressure	Compressor will turn back on when pressure in the tank drops out of the differential range
Capacitor blown	Replace capacitor
Thermal trip on motor	Wait for motor to cool down. Find reason motor was running hot (air leaks/undersized for application) and resolve

AIR IN TANK BUT NOTHING COMING OUT THE OUTLET

Possible causes	Solutions
Valve shut before the regulator	Open the valve
Regulator wound down too far so it stops flow	Turn regulator to increase pressure

AIR VENTING AFTER COMPRESSOR REACHES PRESSURE

Possible causes	Solutions
Air venting less than 10 seconds after pump turns off	This is head pressure being released and is normal
Air venting more than 10 seconds after pump turns off. NRV failed and air leaking backwards from tank	Replace NRV spring and seal

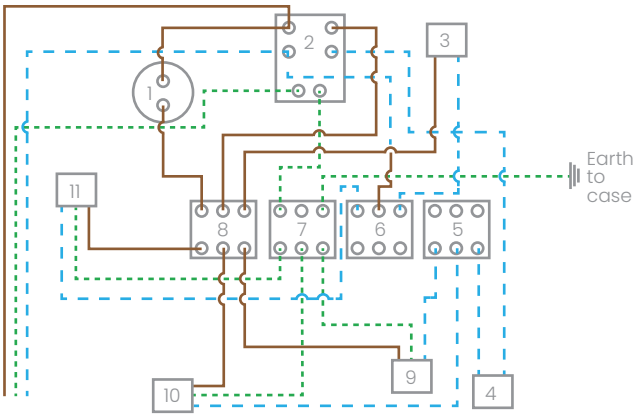
TAKES A LONG TIME TO GENERATE PRESSURE/UNABLE TO REACH PRESSURE

Possible causes	Solutions
Air leaks in system	Fix air leaks
Piston rings worn	Requires pump service
Motor windings damaged	Replace motor

For any fault not listed in this table, please contact Bambi Air directly for assistance.

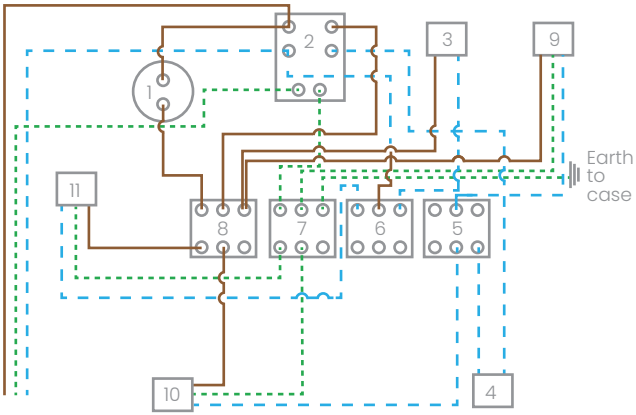
25. Wiring diagrams

VTS75, VTS150, VTS200



1 - Thermal fan switch
2 - Pressure switch
3 - Exhaust fan
4 - Thermal trip
5, 6, 7 & 8 - Connection blocks
9 - Solenoid
10 - Compressor
11 - Cooling fan
12 - Power in

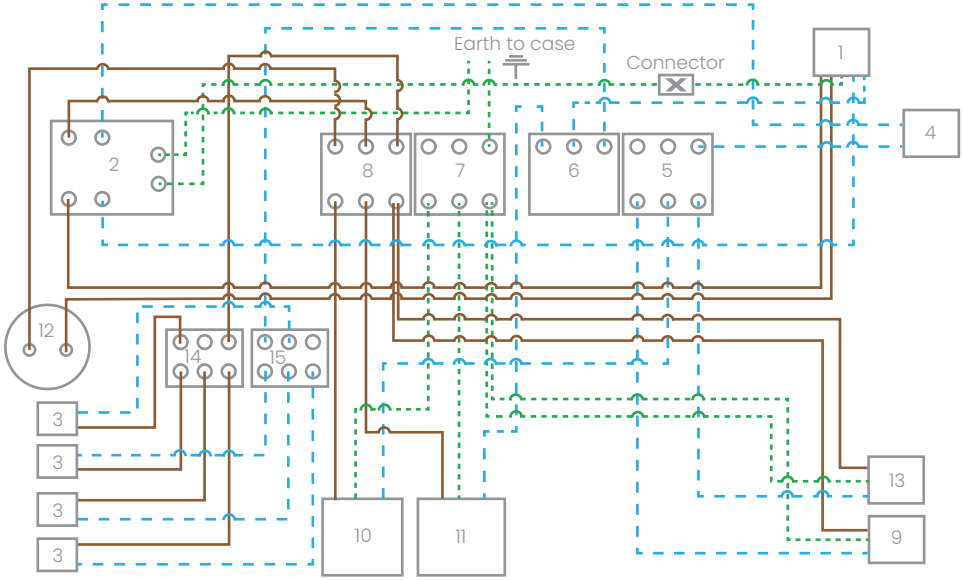
VTS75D, VTS150D, VTS200D



1 - Thermal fan switch
2 - Pressure switch
3 - Exhaust fan
4 - Thermal trip
5, 6, 7 & 8 - Connection blocks
9 - Solenoid
10 - Compressor
11 - Cooling fan
12 - Power in

26. Wiring diagrams (continued)

VTS200, 250D



1 - Power in
2 - Pressure switch
3 - Cooling fans
4 - Thermal trip
5, 6, 7, 8, 14 & 15 - Connection blocks
9 - Solenoid
10 - Motor
11 - Aftercooler fan
12 - Thermal fan switch
13 - Timer box

Note! Timer box only used on dryer models

Live: Neutral: Earth:

NOTE!

The cooling fans remain live even with the power switch in the "OFF" position.

Notes

All Bambi air compressors are designed, built and tested in the UK to ensure continuity across our product ranges and compliance with consumer quality standards.

MADE IN BRITAIN

bcas BRITISH COMPRESSED AIR SOCIETY LIMITED

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